

## Seismic Wave Speeds

Seismographs at five observation stations recorded the arrival times of the P and S waves produced by an earthquake. These data are shown in the graph.

**(1) Reading Graphs** What variable is shown on the x-axis of the graph? The y-axis?

**(2) Reading Graphs** How long did it take the S waves to travel 2,000 km?

**(3) Estimating** How long did it take the P waves to travel 2,000 km?

**(4) Calculating** What is the difference in the arrival times of the P waves and the S waves at 2,000 km? At 4,000 km?

